

INTERNATIONAL COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

To:
 Assistant Commissioner for Patents
 United States Patent and Trademark
 Office
 Box PCT
 Washington, D.C.20231
 ETATS-UNIS D'AMERIQUE
 in its capacity as elected Office

Date of mailing (day/month/year) 19 April 2000 (19.04.00)	Applicant's or agent's file reference 98 P 2021 P
International application No. PCT/SE99/01642	Priority date (day/month/year) 21 September 1998 (21.09.98)
International filing date (day/month/year) 20 September 1999 (20.09.99)	
Applicant LIDMAN, Johan et al	

1. The designated Office is hereby notified of its election made:

in the demand filed with the International Preliminary Examining Authority on:

 31 March 2000 (31.03.00)

in a notice effecting later election filed with the International Bureau on:

2. The election was
 was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Claudio Borton
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

NOTIFICATION OF THE RECORDING OF A CHANGE

(PCT Rule 92bis.1 and Administrative Instructions, Section 422)

To:

ST. JUDE MEDICAL AB
 Patent Dept.
 S-175 84 Järfälla
 SUÈDE

Date of mailing (day/month/year) 19 December 2000 (19.12.00)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 98 P 2021 P	
International application No. PCT/SE99/01642	International filing date (day/month/year) 20 September 1999 (20.09.99)

1. The following indications appeared on record concerning:

the applicant the inventor the agent the common representative

Name and Address PACESETTER AB S-175 84 Järfälla Sweden	State of Nationality SE	State of Residence SE
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

the person the name the address the nationality the residence

Name and Address ST. JUDE MEDICAL AB S-175 84 Järfälla Sweden	State of Nationality SE	State of Residence SE
	Telephone No.	
	Facsimile No.	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

the receiving Office the designated Offices concerned
 the International Searching Authority the elected Offices concerned
 the International Preliminary Examining Authority other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Catherine Massetti Telephone No.: (41-22) 338.83.38
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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)



Applicant's or agent's file reference 98 P 2021 P	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/SE99/01642	International filing date (day/month/year) 20/09/1999	Priority date (day/month/year) 21/09/1998
International Patent Classification (IPC) or national classification and IPC A61N1/365		
Applicant PACESETTER AB et al.		

- This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 5 sheets, including this cover sheet.
 - This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I Basis of the report
- II Priority
- III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV Lack of unity of invention
- V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI Certain documents cited
- VII Certain defects in the international application
- VIII Certain observations on the international application

Date of submission of the demand 31/01/2000	Date of completion of this report 03 08 00
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Held, G Telephone No. +49 89 2399 2248 

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/SE99/01642

1. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

Description, pages:

1-26 as published

Claims, No.:

1-13 as published

Drawings, sheets:

1/7-7/7 as published

2. The amendments have resulted in the cancellation of:

- the description, pages:
 the claims, Nos.:
 the drawings, sheets:

3. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/SE99/01642

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims 1 - 13
	No: Claims
Inventive step (IS)	Yes: Claims 1 - 13
	No: Claims
Industrial applicability (IA)	Yes: Claims 1 - 13
	No: Claims

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

1. Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document/s/:

D1: US-A-5 040 535

1.1 The document D1 is regarded as being the closest prior art to the subject-matter of independent claim 1, and discloses (the references in parentheses applying to this document):

An apparatus for providing a signal representing the status of a sensor in a medical implant comprising a sensor which generates positive and negative charges in response to positive and negative changes in load, means for detecting the charges from the sensor, said detected positive and negative charges constituting a sensor output voltage, means for integrating the sensor output voltage thereby providing an integrated signal, said signal representing the status of the sensor wherein said integrating means comprising voltage-to-frequency converting means for converting the sensor output current into a frequency signal and counting means for subjecting said frequency signal to a counting operation for obtaining said integrated signal.

The differentiating feature of the present independent claim 1 in comparison with document D1 is that the measured variable is the current in place of the voltage in D1. The advantage reached with this feature is to avoid leakage of charges which negatively affect the accuracy of the measurement (stated in the description of the application on page 1, line 29 - page 2, line 2).

In the available prior art is no passage which addresses the problem of leakage of charges, Thus, the subject-matter of independent claim 1 does fulfill the requirements of Article 33(2) - (4) PCT.

1.2 Claims 2 - 13 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

2. Re Item VII

Certain defects in the international application

2.1 According to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 should have been mentioned in the description.

2.2 Independent claim 1 should have been drafted in the two-part form in accordance with Rule 6.3(b) PCT with those features known in combination from the prior art (document D1) being placed in a preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in a characterising part (Rule 6.3(b)(ii) PCT).

In addition, the applicant should have ensured that it is clear from the description which features of the subject-matter of claim 1 are known from document D1 (see the PCT Guidelines PCT/GL/3 III, 2.3a).

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)



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Date of submission of the demand 31/01/2000	Date of completion of this report 03.08.00
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Held, G Telephone No. +49 89 2399 2248 

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International application No. PCT/SE99/01642

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4. Additional observations, if necessary:

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EXAMINATION REPORT**

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